

Claims

[c0001] 1. Folding roller used in converting machines of paper or similar products, said machines comprising a first and a second counter rotating folding roller having a substantially cylindrical body and a plurality of folding means, wherein said first and second folding roller interact at a contact line for making in a folding area downstream said contact line a stack of folded and/or interfolded sheets characterised in that at least one support is provided for each of said folding rollers spaced from said contact line and in order not to impede folding operations in said folding area.

[c0002] 2. Folding roller, according to claim 1, wherein between said support and said folding roller a bearing is provided suitable for allowing a free rotation of said folding roller with respect to said support.

[c0003] 3. Folding roller, according to claim 1, wherein said at least one support holds said folding roller at a portion not occupied by folding rings of said folding roller.

[c0004] 4. Folding roller, according to claim 1, wherein said folding roller comprises at least a first and a second cylindri-

cal body operatively connected at an end so that they can rotate integrally.

[c0005] 5. Folding roller, according to claim 4, wherein said support and the relative bearing are arranged at said ends operatively connected.

[c0006] 6. Method to obtain folded and/or interfolded sheets of paper and similar products by feeding and moving a sheet or web of paper or similar products in a folding and/or interfolding machine up a couple of folding counter rotating rollers, said rollers being suitable for cooperating at a contact line for making a stack of interfolded and/or folded sheets in a folding area located downstream of said contact line characterised in that said folding rollers are held by a support spaced from said contact line without impeding folding operations in said folding area.